

Anil Aryal

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Relaxation phenomena in adiabatic temperature changes near magnetostructural transitions in Heusler alloys. Journal of Alloys and Compounds, 2020, 821, 153402.	5.5	6
2	Magnetic field dependence of the martensitic transition and magnetocaloric effects in Ni ₄₉ BiMn ₃₅ In ₁₅ . AIP Advances, 2020, 10, 015138.	1.3	1
3	Effects of magnetic and structural phase transitions on the normal and anomalous Hall effects in Ni-Mn-In-B Heusler alloys. Physical Review B, 2020, 101, .	3.2	24
4	NMR studies of the ground states of Ni _{50-x} Co _x Mn ₃₅ In ₁₅ (x=1, 2.5) and Ni ₄₅ Co ₅ Mn ₃₇ In ₁₃ Heusler alloys. AIP Advances, 2020, 10, 015328.	1.3	0
5	Mn ₂ FeSi: An antiferromagnetic inverse-Heusler alloy. Journal of Alloys and Compounds, 2020, 823, 153770.	5.5	22
6	Martensitic Phase Transition in Magnetic Thin Films Based on Inverse Mn ₂ FeSi Heusler Alloys. Journal of Experimental and Theoretical Physics, 2020, 130, 117-122.	0.9	6
7	Direct and indirect measurements of the magnetic and magnetocaloric properties of Ni _{0.895} Cr _{0.105} MnGe _{1.05} melt-spun ribbons in high magnetic fields. Journal of Magnetism and Magnetic Materials, 2019, 488, 165359.	2.3	8
8	Drastic violation of the basic correlation between the Hall effect and resistivity in the Heusler alloy Ni ₄₅ Cr ₅ Mn ₃₇ In ₁₃ . Journal of Magnetism and Magnetic Materials, 2019, 481, 25-28.	2.3	5
9	Magnetostructural phase transitions and large magnetic entropy changes in Ag-doped Mn _{1-x} Ag _x CoGe intermetallic compounds. MRS Communications, 2019, 9, 315-320.	1.8	4
10	Adiabatic Temperature Changes at Structural and Magnetic Phase Transitions in Ni ₄₅ Mn ₄₃ CoSn ₁₁ at High Magnetic Fields. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	3
11	Effects of Rare-Earth (R = Pr, Gd, Ho, Er) Doping on Magnetostructural Phase Transitions and Magnetocaloric Properties in Ni ₄₃ R _x Mn ₄₆ Sn ₁₁ Shape Memory Alloys. IEEE Transactions on Magnetics, 2019, 55, 1-5.	2.1	2
12	Large reversible magnetic entropy change in rapidly solidified Ni _{0.895} Cr _{0.105} MnGe _{1.05} melt-spun ribbons. Intermetallics, 2018, 97, 89-94.	3.9	9
13	Magnetostructural transitions and magnetocaloric effects in Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} ribbons. AIP Advances, 2018, 8, 056434.	1.3	8
14	Magnetic and magnetocaloric properties of Ni-Mn-Cr-Sn Heusler alloys under the effects of hydrostatic pressure. AIP Advances, 2018, 8, .	1.3	4
15	Effects of annealing on the magnetic properties and magnetocaloric effects of B doped Ni-Mn-In melt-spun ribbons. Journal of Alloys and Compounds, 2018, 731, 678-684.	5.5	17
16	Kinetic effects in the magnetic and magnetocaloric properties of metamagnetic Ni ₅₀ Mn ₃₅ In _{14.25} B _{0.75} . Journal of Magnetism and Magnetic Materials, 2018, 459, 98-101.	2.3	7
17	Magnetic and martensitic transformations in Ni ₄₈ Co ₂ Mn ₃₅ In ₁₅ melt-spun ribbons. AIP Advances, 2018, 8, 101410.	1.3	1
18	Microwave absorption through the martensitic and Curie transitions in Ni ₄₅ Cr ₅ Mn ₃₇ In ₁₃ . AIP Advances, 2018, 8, .	1.3	3

#	ARTICLE	IF	CITATIONS
19	Effect of Bi substitution on the magnetic and magnetocaloric properties of Ni ₅₀ Mn ₃₅ In _{15-x} Bi _x Heusler alloys. AIP Advances, 2018, 8, 056409.	1.3	6
20	Specific heat and the influence of hydrostatic pressure on the phase transitions in Ni ₅₀ Mn ₃₅ In _{14.25} Bi _{0.75} . Journal of Magnetism and Magnetic Materials, 2018, 463, 19-22.	2.3	3
21	Effects of the partial substitution of Ni by Cr on the transport, magnetic, and magnetocaloric properties of Ni ₅₀ Mn ₃₇ In ₁₃ . AIP Advances, 2017, 7, .	1.3	6
22	Magnetocaloric effects and transport properties of rare-earth (R=La, Pr, Sm) doped Ni _{50-x} R _x Mn ₃₅ Sn ₁₅ Heusler alloys. Journal of Alloys and Compounds, 2017, 717, 254-259.	5.5	15
23	Giant field-induced adiabatic temperature changes in In-based off-stoichiometric Heusler alloys. Journal of Applied Physics, 2017, 121, .	2.5	20
24	Magnetic, structural and magnetocaloric properties of Ni-Si and Ni-Al thermoseeds for self-controlled hyperthermia. International Journal of Hyperthermia, 2017, 33, 1-6.	2.5	3
25	Magnetostructural phase transitions and magnetocaloric effects in as-cast Mn _{1-x} Al _x CoGe compounds. Journal of Alloys and Compounds, 2017, 709, 142-146.	5.5	43
26	Thermosensitive Ni-based magnetic particles for self-controlled hyperthermia applications. Journal of Magnetism and Magnetic Materials, 2017, 427, 200-205.	2.3	13
27	Inverse magnetocaloric effects in metamagnetic Ni-Mn-In-based alloys in high magnetic fields. Journal of Alloys and Compounds, 2017, 695, 3348-3352.	5.5	27
28	The effects of hydrostatic pressure on the martensitic transition, magnetic, and magnetocaloric effects of Ni ₄₅ Mn ₄₃ CoSn ₁₁ . MRS Communications, 2017, 7, 885-890.	1.8	9
29	Magnetocaloric, thermal, and magnetotransport properties of Ni ₅₀ Mn ₃₅ In _{13.9} Bi _{1.1} Heusler alloy. Journal of Magnetism and Magnetic Materials, 2017, 444, 98-101.	2.3	14
30	Large Inverse Magnetocaloric Effects and Giant Magnetoresistance in Ni-Mn-Cr-Sn Heusler Alloys. Magnetochemistry, 2017, 3, 3.	2.4	25
31	Phase Transitions and Magnetocaloric Properties in MnCo _{1-x} Zr _x Ge Compounds. Advances in Condensed Matter Physics, 2017, 2017, 1-6.	1.1	12
32	The effects of substituting Ag for In on the magnetoresistance and magnetocaloric properties of Ni-Mn-In Heusler alloys. AIP Advances, 2016, 6, .	1.3	17
33	Phase transitions and magnetocaloric and transport properties in off-stoichiometric GdNi ₂ Mnx. Journal of Applied Physics, 2016, 119, .	2.5	15
34	Magnetic and magneto-transport studies of substrate effect on the martensitic transformation in a NiMnIn shape memory alloy. AIP Advances, 2016, 6, .	1.3	8
35	Giant reversible inverse magnetocaloric effects in Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloys. Journal of Alloys and Compounds, 2016, 683, 139-142.	5.5	34
36	Comparing magnetostructural transitions in Ni ₅₀ Mn _{18.75} Cu _{6.25} Ga ₂₅ and Ni _{49.80} Mn _{34.66} In _{15.54} Heusler alloys. Journal of Magnetism and Magnetic Materials, 2016, 401, 1145-1149.	2.3	12

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37	Phase diagram and magnetocaloric effects in Ni _{1-x} Cr _x MnGe _{1.05} . Journal of Applied Physics, 2015, 117, .	2.5	6
38	Magnetocaloric effect in Ni ₅₀ Mn ₃₅ In ₁₅ Heusler alloy in low and high magnetic fields. JETP Letters, 2015, 101, 385-389.	1.4	31
39	Influence of copper substitution on the magnetic and magnetocaloric properties of NiMnInB alloys. Journal of Applied Physics, 2015, 117, .	2.5	8
40	Magnetic, transport, and magnetocaloric properties of boron doped Ni-Mn-In alloys. Journal of Applied Physics, 2015, 117, .	2.5	39
41	Multifunctional properties related to magnetostructural transitions in ternary and quaternary Heusler alloys. Journal of Magnetism and Magnetic Materials, 2015, 383, 186-189.	2.3	63